

Bollo NMP-SE
Networked Full-HD 1080P Media Player

User's Manual



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<http://www.hdhorizon.com>

I. Interface



- DC 12V: DC 12V Power Supply
- POWER: Power Switch
- USB/LAN: USB thumb disk, USB mobile hard disk, USB CD/DVD-ROM; RJ45 Network interface
- USB Slave: To use the port connecting to PC, the Bollo NMP-SE can be used as an external USB storage device.
- Component: Video connection using three red-green-blue terminals, up to 1080i resolution
- Composite: Output video signal
- Stereo: Output analog stereo audio signal
- Optical Fiber: Output digital audio signal
- Coaxial: Output digital audio signal
- eSATA Host/Slave: To use the eSATA Host port connecting to another external HDD drive, The eSATA Slave port can be used to connect to PC, then Bollo NMP-SE work as an external storage device.

II. Video Cable Connection

1. First, please check the video interfaces on your TV. Select the video interface following in priority order shown below:

HDMI > DVI > Component > Composite

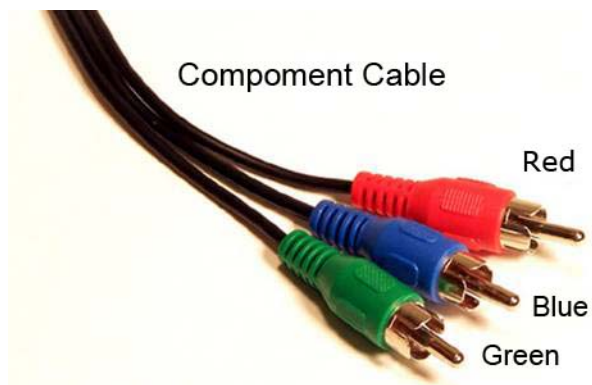
In general, there will be several kinds of video interfaces for the user to choose. The preferred connection is HDMI (if available) and composite is the last choice. Therefore, to choose the interface in accordance with the priority order above can ensure the best image quality available on your TV set.



2. You need to buy a DVI-HDMI converter if the best video interface on your TV is DVI, (shown below), which isn't a standard accessory.



3. Please choose the component interface to connect the Bollo NMP-SE if your TV has neither HDMI nor DVI. The component is represented by three red-green-blue terminals.



4. If your TV has only a composite video interface, you will only experience a downgraded video signal. The composite video cable can not transmit high-definition video. We would recommend that the Bollo NMP-SE only be used with a high-definition TV so you can experience the best possible video quality.



III. Audio Cable Connection

1. It is suggested to connect Bollo NMP-SE, AV amplifier and TV in the following way if your AV amplifier has HDMI interfaces.

Bollo NMP-SE --(HDMI)--> AV Amplifier --(HDMI)--> Display Equipment

The Fiber optical or coaxial cable is used to transmit digital audio signal only.

2. If there is no HDMI port on your AV amplifier, please use the Optical Fiber or Coaxial cable to connect SPDIF port between your AV amplifier and Bollo NMP-SE.
3. If you don't have an AV amplifier, and your TV is connected through a HDMI cable, you need no other audio connection. The HDMI cable can transmit video and audio signals in a single cable.
4. Please also connect the stereo cable to corresponding audio ports in the same component socket set if you don't have an AV amplifier, and your display equipment is connected through component cable.
5. If you are using the composite to connect display equipment, please also connect the Left/Right audio plugs (combined with composite plug) in the corresponding composite socket.

IV. Hard Disk Installation

1. Bollo NMP-SE can enclose a 3.5" SATA hard drive inside. You also can connect more external hard disk drives by USB Host or eSATA Host interface.
2. Formatting Hard Drive into NTFS format, then copy music, movie, picture files or folders to it. Bollo NMP-SE supports the following types of system format: EXT3/EXT2, NTFS/FAT32, HFS / HFS +.
3. When install a hard drive into Bollo NMP-SE, please correctly insert the hard disk drive to the SATA interface which is showed in following picture.



The SATA interface panel can be rotated, so you can easily insert the hard drive. Please press it down to the slot and close the bottom cover after the hard drive is inserted.



V. Startup Operation

Now, you can connect the power adapter to Bollo nmp-se, and turn it on.

1. Switch to correct display channel by using your TV or Projector remote control. E.g.: HDMI, DVI or Component.
2. “Starting.....” will appear on your screen after you press the ON/OFF button on the Bollo remote control or plug in the DC power socket.
3. After a short time, the characters “Starting.....” will disappear, and a main operation interface will appear on the screen. If the basic 720P/60Hz High-Definition mode is not supported in your display equipment, nothing will be displayed on your screen. If so,

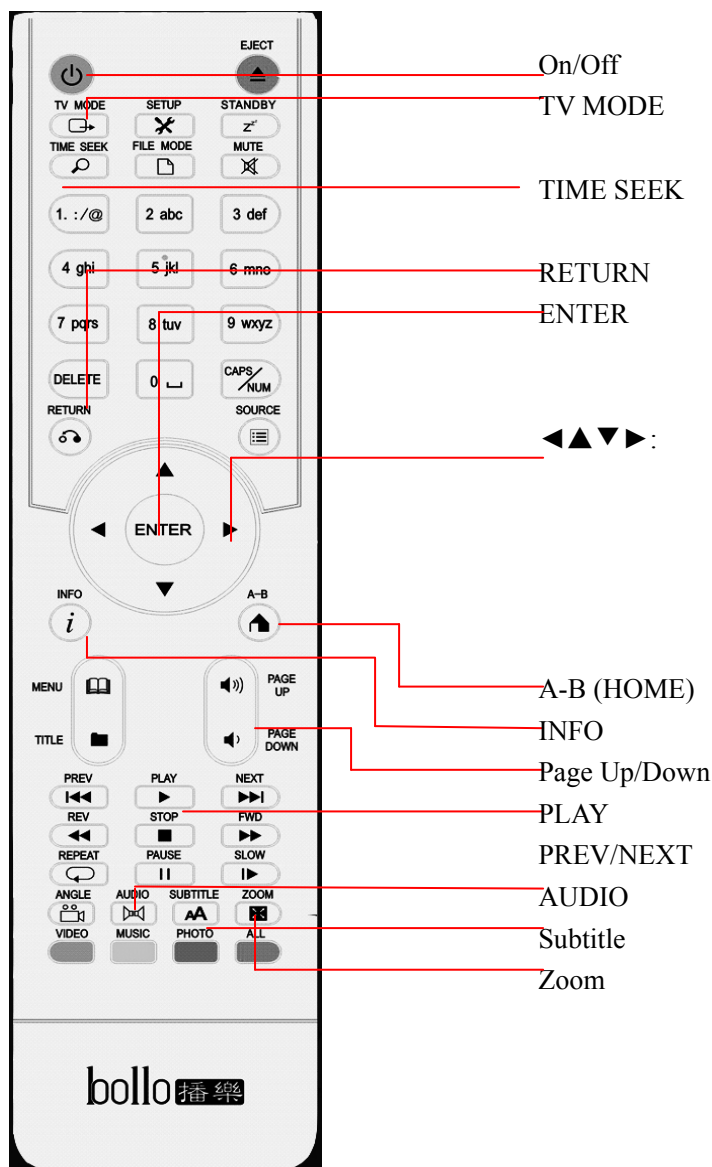
you can switch to different display resolutions by using “TV Mode” + “NUM” key on the Bollo NMP-SE remote control.

TV MODE + 1 = HDMI 480p60;
TV MODE + 2 = HDMI 576p50;
TV MODE + 3 = HDMI 720p60;
TV MODE + 4 = HDMI 1080p60;

TV MODE + 5 = Component 480p60;
TV MODE + 6 = Component 576p50;
TV MODE + 7 = Component 720p60;
TV MODE + 8 = Component 1080p60;

- Please enter the setting menu (far right icon) after the operation interface appears. Select the appropriate parameters according to your display and audio equipment. There are a few parameters that need to be adjusted in order to help the Bollo NMP-SE achieve a good performance. These are the Resolutions, Frequency, Color Range, Decoding type of audio signal, and the subtitle language. After the proper selections have been made, you can start to enjoy your high definition video.

VI. Remote Control



Power ON/OFF Button.

TV MODE Button. Press this button and a Number to switch to different resolutions.

Time Seek Button. Press this button ◀▶ to go to different time point of video rapidly.

Press this button to return to parent directory.

Confirmation key, play a single file. If you want to continuous play the contents of the directory, press the PLAY button.

Navigation key: control the cursor movement; also have fast-forward rewind and volume size of the adjustment function, press ◀ to rewind, press ▶ to fast-forward. Press ▲ to increase volume, press ▼ to reduced volume.

Return to root menu

Show the movie information when playing.

Turn to PREV/NEXT page

Continuous play the files in the folder.

Turn to the previous/next playing file

Switch Track

Adjustment Subtitles Setting

Display ratio adjustment

Remote Control Button Guide:

- **PLAY (>)** – Playing button, Press this button will continuous play audio, video, picture file, etc. When playing the directory of blue-ray disk, select BDMV directory and press this button, the player will start to play blue-ray movies in the directory automatically. If select BDMV directory and press “confirm” button, the player will enter into directory scanning without play automatically.
- **AUDIO** – Audio track switch button. If a video file includes several audios, please press this button to fulfill the switch of audios.
- **SUBTITLE** – Subtitle operation, continuous presses this button can change into different subtitle property, such as subtitle language; encode format, subtitle size and position, etc. Pressing the key left-right would adjust the value of subtitle property.

Note: There are a lot of encode formats of subtitle file, such as: GBK, big5, UTF-8, etc. When watching movies, if the subtitle is messy code on the screen, it means the encode format of subtitle file dose not match with the player setting of subtitle encode format. Please continuous press "SUBTITLE" button, find the “subtitle encoding” options, and click the key left-right button to adjust subtitle encode format of player until display normal.

- **TV MODE** – Press the TV MODE button and a numeric key would switch to different display resolutions.

TV MODE + 1 = HDMI 480p60;

TV MODE + 2 = HDMI 576p50;

TV MODE + 3 = HDMI 720p60;

TV MODE + 4 = HDMI 1080p60;

TV MODE + 5 = Component 480p60;

TV MODE + 6 = Component 576p50;

TV MODE + 7 = Component 720p60;

TV MODE + 8 = Component 1080p60;

Note: When use HDMI output signal, composite output as well. If you are using Component output, there is not composite video output.

VII. Create Thumbnail for Video

You can create a thumbnail and put it in the folder in order to help you browse your video/audio intuitively. The picture must be named “thumb. jpg” (140x190 pixels) and in the folder with your media. When you browse the movie folder, this picture will appear at the bottom-left of screen.



Name and Size of thumbnail:

Thumbnail name: thumb.jpg

Size: 140 x 190 pix

VIII. Firmware Update

The Bollo NMP-SE is similar to a computer, including the hardware and operating system. The operating system, we call it "Firmware", it's saved in an erasable Flash RAM, and therefore, we can ameliorate our machine and add new functions by updating the firmware. We will issue new firmwares on our website (<http://www.hdhorizon.com>). Please follow the steps below to update the firmware:

1. Download the newest firmware from <http://www.hdhorizon.com> for free.
2. Store the firmware into your USB storage device (If firmware is a compressed file, decompress it first). The format of update firmware similar to be below:

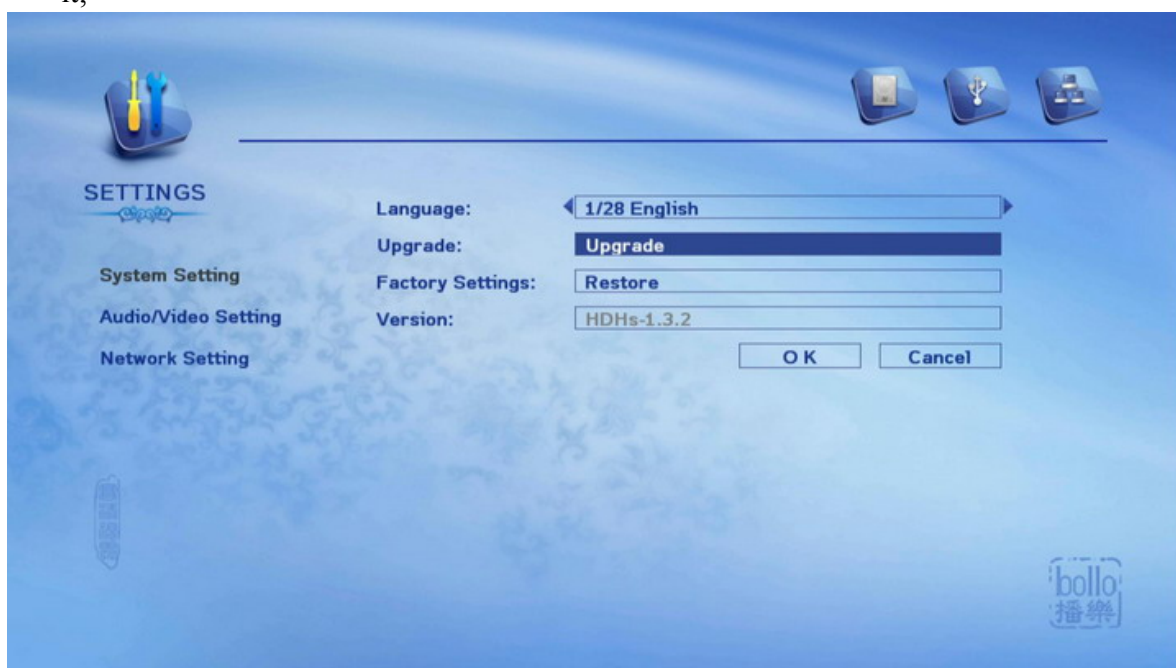
HDHs-upgrade-0.9.1-20090716.bin



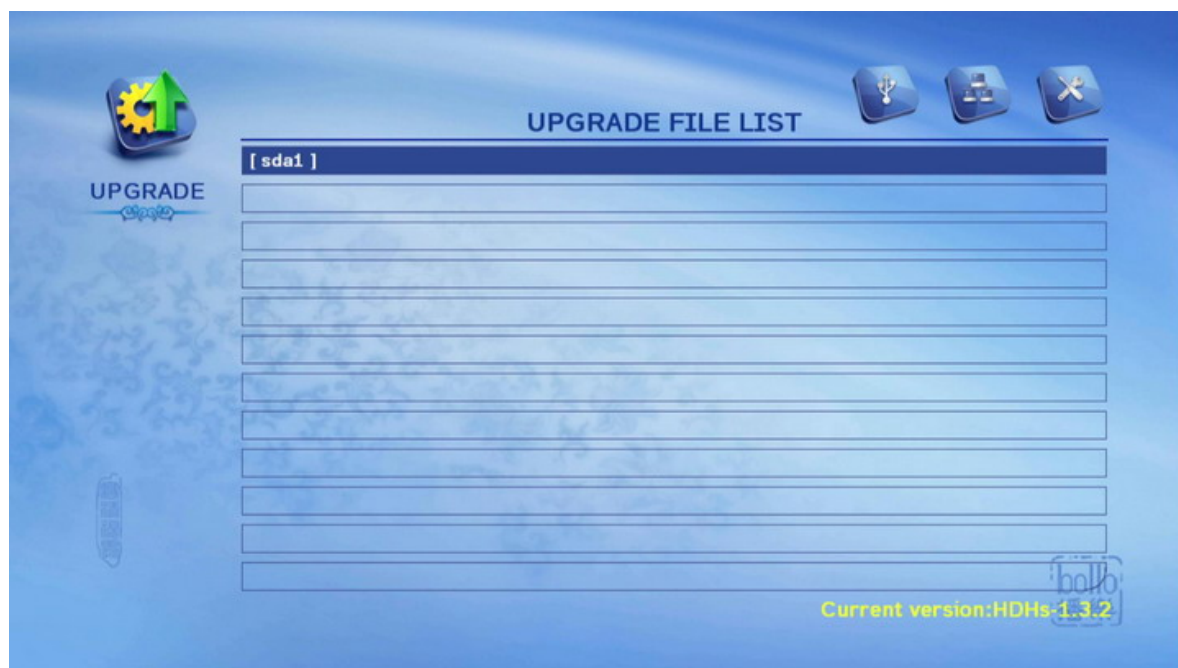
3. Connect the USB storage device which include upgrade firmware into USB Host port of Bollo NMP-SE, then enter the "SETTINGS" menu;



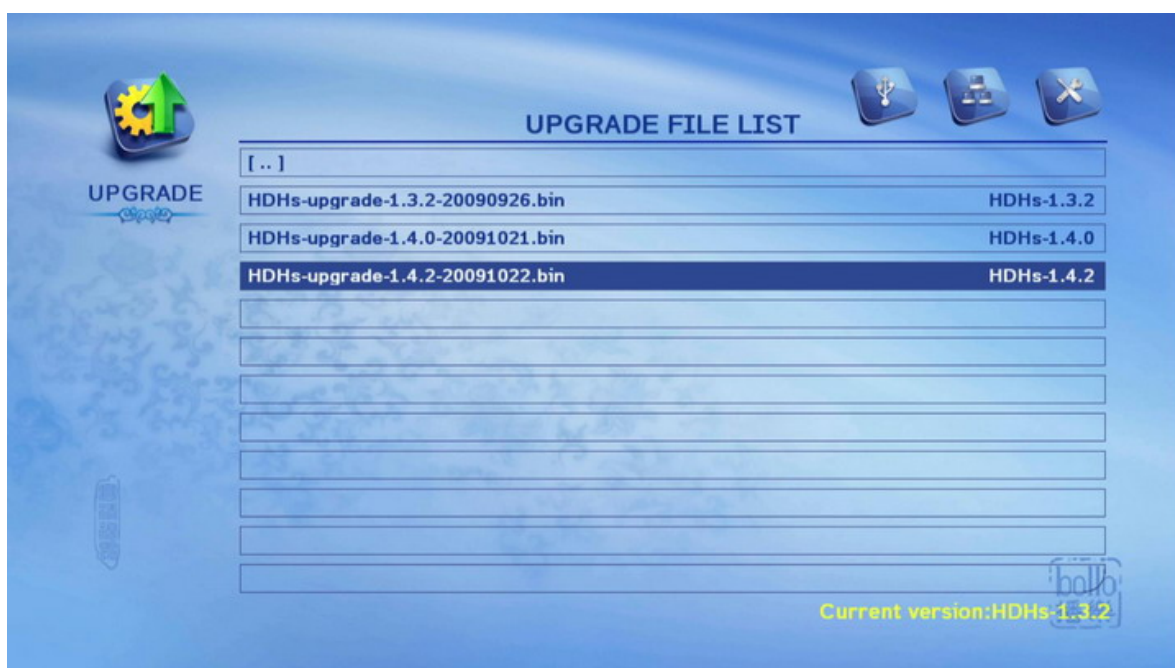
4. In the System Setting menu, choose Upgrade option and press "OK" button to execute it;



The system will find out the USB device on the USB Host port, and show up the device name. Choose the device and press "OK" button to browse the device;



5. Select a correct upgrade file in your USB device, and press "OK" button to execute upgrading;



6. When upgrade has finished, please power off the player and restart it. Then, you have finished upgrade.

IX. Network Setup

You can realize the network connection through build-in USB2.0 RJ45 Ethernet adapter or an USB WIFI adapter. Bollo nmp-se support following WIFI chip types:

USB2.0 WIFI : Ralink RT2870/RT2770/RT307x/RT2070/RT3572

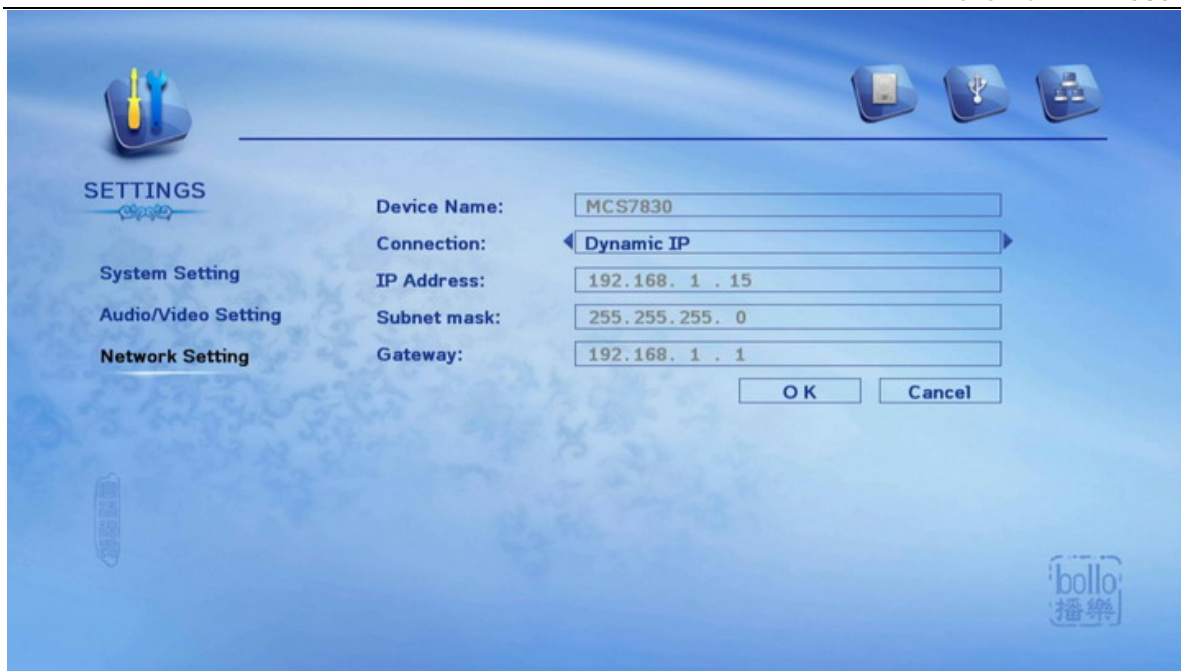
There will be more USB network chip supported in future, please take note of relevant information on <http://www.hdhorizon.com>.

USB Ethernet Adapter installation:

1. Connect with Ethernet cable(as shown):



2. Start up Bollo NMP-SE, enter into “setting menu” →”network setting”, you should see similar pictures as follows on the screen.



If no IP address appeared, maybe something is wrong as follows:

- a) The Ethernet cable isn't attached properly, Bollo NMP-SE can not access network;
 - b) Your router does not turn on DHCP server, and you have to input a static IP address;
3. When Bollo NMP-SE obtains IP Address, that means your player has connected with LAN. Then, you would enter into "NETWORK" option on the root menu.



After that, you can see the computers in your LAN:



WIFI Installation:

The following certification modes are supported by Bollo NMP-SE: : wpa/psk, wpa2/pask, open, adhoc; Encryption ways: TKIP, AES. Bollo NMP-SE does not support WEP certification mode because the WEP certification mode isn't safe.

1. Plug USB2.0 WIFI adapter into USB Host port of Bollo NMP-SE:

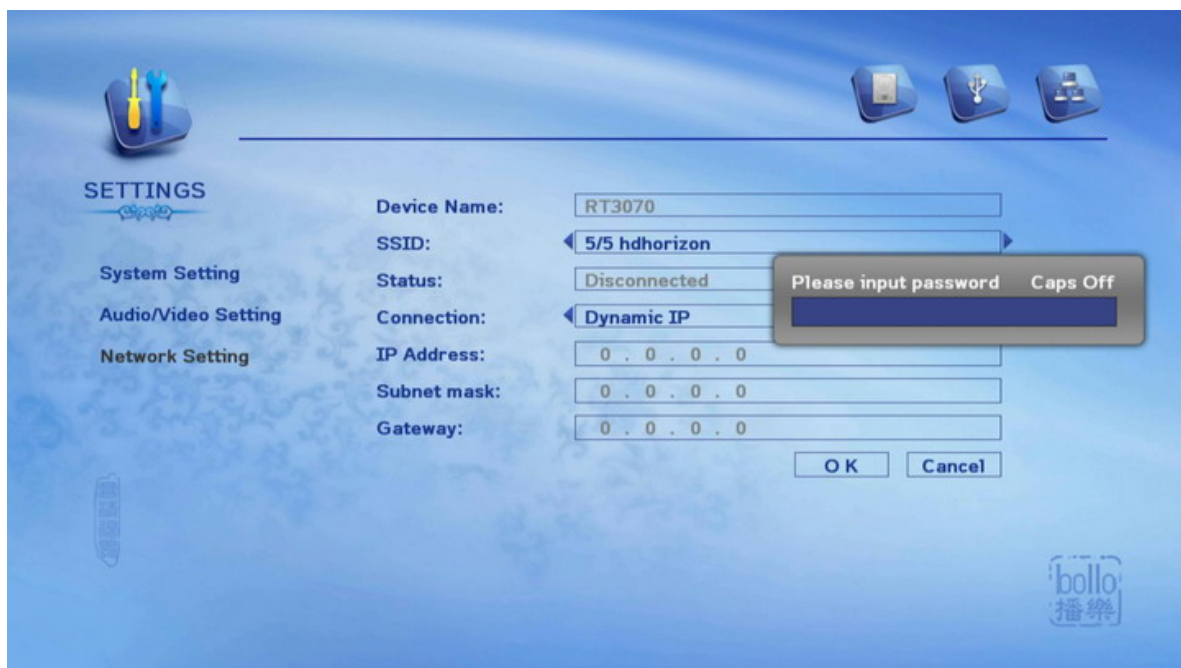


2. Start up Bollo NMP-SE, enter into "SETTINGS" → "Network Setting", similar information on the screen as following pictures:



SSID stands for wireless signals numbers that you received now; press Left/Right button to choose wireless network you would like to login in.

3. After selected what network you will login in, then press “OK” button to confirm. A password input window will pop up.



Input your WIFI certification password, then please “OK” to confirm. If the password is correct, the player will obtain IP Address automatically.

If no IP address information appears, maybe caused by following problems:

- a). Password incorrect. Please input correct password.

- b). Certification mode of WIFI router is settled incorrect. Bollo NMP-SE does not support WEP certification mode because it's not safe. If you are using WEP certification mode, please change to WAP certification mode and try again.
 - c). If DHCP service does not start up on the WIFI router; Please start up DHCP service on the router, or input a correct static IP address.
4. When Bollo NMP-SE obtains IP address, that mean the player has connected to WIFI network. You could enter into "Network" on main menu to browse your network.

Network share setup:

Bollo NMP-SE support Samba and UPnP network share protocol now. Please take note following comments when you encounter problem:

1. Some firewall forbid network shares, if you can't see your computer on network, please try to turn off the firewall.
2. If you can only see the shared folder name, but the subfolders and files, that mean you encounter an access authority problem. Please try to active "Guest" accounts on your computer, and following road map below to open "explorer" and reset shares again (for Windows OS):

"Start → All programs → Accessories → Windows explorer"

X. Technical Specification

Hardware:

- CPU: SIGMA DESIGNS SMP8635LF Ver. C
MIPS: 300MHz
Auxiliary Processor Frequency: 200MHz
- Audio DSPs: 300MHz
- DDR-1 DRAM: DDR 64bit 256MB
- External NOR Flash: 16-bit 512MB

Video Output:

- HDMI 1.3,
- YPbPr, Component
- Composite
- VGA,
- Composite

Audio Output:

- Stereo (RCA)
- SPDIF digital audio output
- Coaxial digital audio output

- HDMI 1.3 (DTS-HD, TrueHD supported)

USB:

- 2 x USB2.0 HOST
- 1 x USB2.0 Slave

Networking:

- 1 x 10/100Base-TX build Rj45 Ethernet
- Supporting IEEE 802.11n USB Wireless network
- Internal HDD Type:
- 1 x 3.5" SATA I / II HDD x 1
- 1 x eSATA Host
- 1 x eSATA Slave

Size: 200 x 200 x 60 mm

Net weight: 3.5Kg

XI. Performance Specification:

Video:

- MPEG1/2/4 Elementary (M1V, M2V, M4V)
- MPEG1/2 PS (M2P, MPG)
- MPEG2 Transport Stream (TS, TP, TRP, M2T, M2TS, MTS)
- VOB
- AVI, ASF, WMV
- Matroska (MKV)
- MOV (H.264), MP4, RMP4

Video Codec:

- XVID SD/HD, DIVX .x/5.x, MPEG-1, MPEG-2, MP@HL, MPEG-4.2
- ASP@L5, 720p, 1-point GMC, WMV9, MP@HL, H.264, BP@L3, MP@L4.0, HP@L4.0,
- HP@L4.1, VC-1, MP@HL, AP@L3

Audio:

- AAC, M4A, MPEG audio(MP1, MP2, MP3, MPA), WAV, WMA, OGG, APE, FLAC.

Audio Codec:

- WMA, WMA Pro, AAC, MP1, MP2, MP3, LPCM, AC3, DTS, DTS-HD, TrueHD.

Photo formats:

- JPEG, BMP, PNG, GIF

Subtitle:

- SubRip [.srt], Sub Station Alpha [.ssa]

Other Format:

- BD-ISO, DVD-ISO

OSD Language:

- Simplified Chinese, Traditional Chinese, English, etc.

Subtitle Language:

- Simplified Chinese, Traditional Chinese, English, etc.

Remote Control:

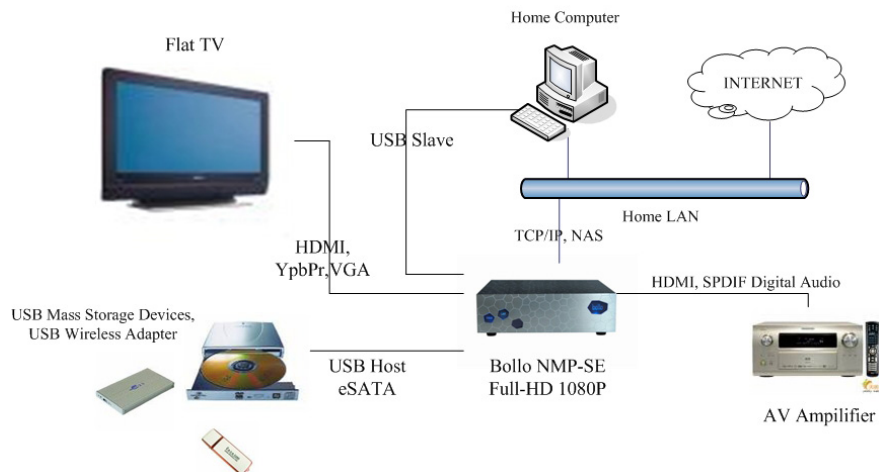
- Provide a luminous remote control for convenience at night.

Hard Disk Format:

- Linux EXT2/EXT3, Windows NTFS/FAT32

X.Accessories:

- Gold-plated HDMI cable x 1
- 1 x High Speed USB 2.0 Cable
- Luminous remote control x 1
- 1 x Power Adapter 12V/4A
- Enclosure screw package x 1
- AC Cable x 1
- CD X 1



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